



HD102

Throw Distance

Thank you for choosing Knöll projectors! The HD102 is DLP™ projector with 16:9 digital light processing chips to give bright clear images and display movies in a format similar to the one they were filmed in. Its all glass lens allows for a wide level amount of zooming (1:1.2).

Some of the advances unique to the the HD102 are the new "flat pixel" technology and 10-bit video DACs for noise-free dark scenes and a very high contrast ratio (2200:1). The HD102 projector is designed only for use with 16:9 aspect ratio screens. 4:3 images can safely be displayed on the 16:9 screens. Some screens have moveable screen width curtains that can be controlled by the HD102 screen trigger output.

The Knöll CM10 ceiling mount kit is easy to install and swivels for exact placement. It drops the projector about 3" and the projector lens is about 6" from the ceiling. If more of a drop is needed, the CM20+6 extender adds an extra 6" drop. As many CM20+6 can be added as needed.

The most frequently asked questions concerning DLP projectors are:

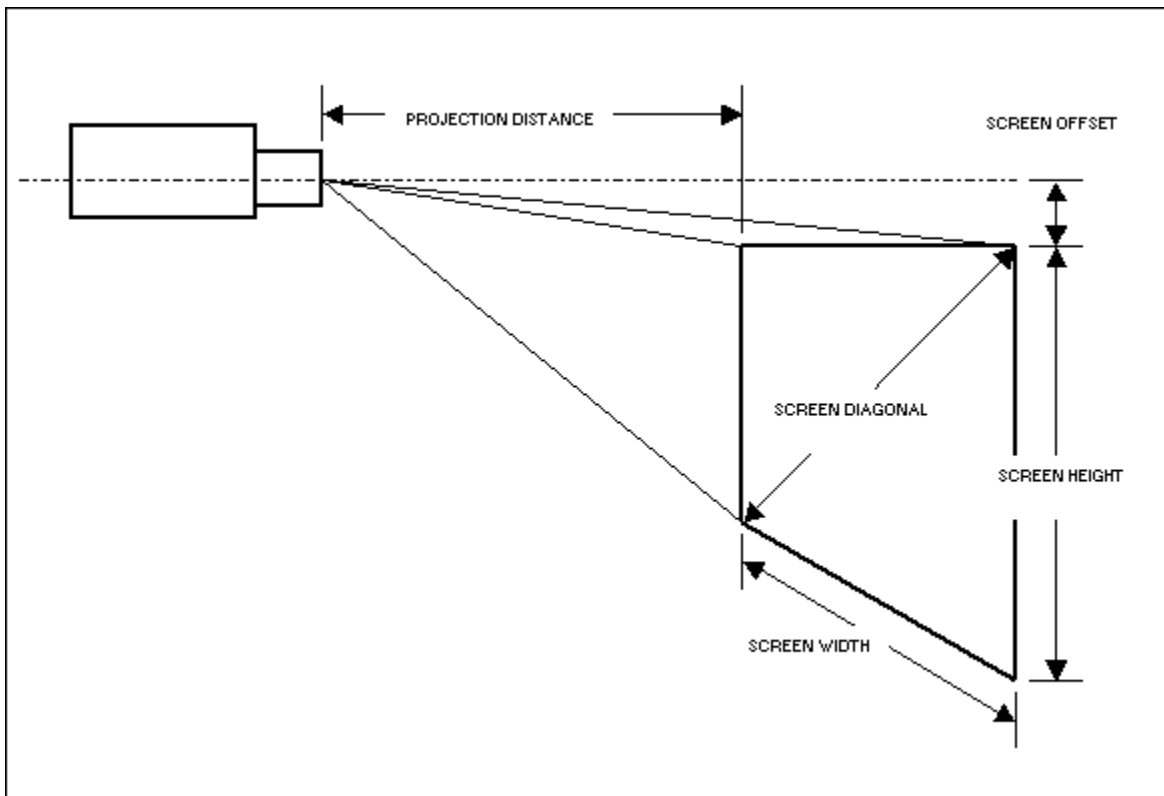
How much can the projector be tilted down (when ceiling mounted) or up (when floor mounted)?

About 20 degrees. The HD102 has a digital adjustable keystone but for best overall image the HD102 projector should ideally be level if the screen is vertical (which is usually the case).

Is the width of the 4:3 image the same as the 16:9 image?

No. The HD102 has 16:9 imager and displays 16:9 or widescreen images using its full width of 854 pixels by 480 pixels high. When displaying 4:3 images it still uses all of its 480 pixels in height but the image width is reduced to 640 pixels. Black bars are added on the sides of the image.

Projection throw distances are the maximum and minimum horizontal distances from the projector lens to the screen. If the projector is mounted level (*this is strongly recommended*) the image will drop (ceiling mounted projector) or rise (floor mounted projector).



HD102 Projection Throw Distance 16:9 Video Screen

Screen Diagonal	92"	103"	106"	110"	122.5"	146.75"
Minimum Distance	139.5"	156.1"	160.7"	166.7"	185.7"	222.5"
Maximum Distance	167.2"	187"	192.5"	200"	222.7"	266.8"
Screen offset	7.3"	8.2"	8.4"	8.8"	9.8"	11.7"
Viewing Area	45"x80"	50.5"x89.75"	52"x92"	54"x96"	60"x107"	72"x128"

MAXIMUM DISTANCE TO SCREEN (16:9) = 1.818 x SCREEN DIAGONAL SIZE

MINIMUM DISTANCE TO SCREEN (16:9) = 1.516 x SCREEN DIAGONAL SIZE

SCREEN OFFSET (IMAGE DROP OR RISE) (16:9) = 0.08 x SCREEN DIAGONAL SIZE

[HOME](#)